MATERIAL SAFETY DATA SHEET
MARINE PLYWOOD

Section 1. General Information

Common name: Marine Plywood
Manufacturer: Compensati TORO spa –
via Piverone 4 –
10010 AZEGLIO (TO) ITALY
Telephone number: +390125687999

Section 2. Composition and information of ingredients

Product description: Composite panel made of wood veneers bonded together under heat and pressure using a melamine-urea-formaldehyde (MUF) resin mixt contain resorcinol.

Ingredients:
- wood: 90-92%
- resin mixt: 8-10%
- hardener of resin: 0.2-0.3%

Hazardous ingredients:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>% by weight</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardwood (dust)</td>
<td>none</td>
<td>90 ??</td>
<td>ACGIH 1 mg/m³ TLV-TWA</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>&lt; 0.1</td>
<td>ACGIH &lt;0.3 ppm TLV-Ceiling</td>
</tr>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td></td>
<td>ACGIH TLV-TWA: 10 ppm, 45 mg/m³</td>
</tr>
</tbody>
</table>

Section 3. Toxicology and Health Information

This product, in its natural form, is not classified as hazardous. However, the known health effects of the constituents of the product are as follows.

Manual or mechanical cutting or abrasion processes (sawing, sanding, drilling, routing, planing, etc.) performed on the product may result in generation of wood dust. The main health effects relating to this product result from prolonged exposure to fine wood dust generated by further processing.

Wood dust may cause mechanical irritation to the eyes (causing discomfort and redness) and skin (resulting in itching and occasionally a red rash), allergic contact dermatitis in sensitized individuals, or irritation to the upper respiratory system (nose, throat, lungs). Wood dust may also be a sensitizer and some people may develop allergic dermatitis or
asthma. Respiratory ailments or pre-existing skin conditions may be aggravated by exposure to wood dust. Inhalation of wood dust, under repeated and uncontrolled exposure over many years, may increase the risk of allergies, dermatitis, asthma or chronic nose or throat irritation in some people. The risk of nasal and para nasal sinus cancers may also be increased. Further processing of product must be done taking care to the use of adequate system for protection and aspiration conforming to the requirements of the Law in force (for Italy D.Lgs. 81/2008). If the work practices noted in this MSDS are followed, no chronic health effects are anticipated.

Formaldheyde emission can determine irritation to eyes and skin. However, the quantity of resin in the product is very small and the free formaldheyde content of the resin mixt used is low (less than 0.01% of resin mixture). This content in practice is entirely consumed during the gluing process and the product satisfy Class E1 of formaldheyde emission (upper limit 3.5 mg/m² h) according to EN 13986 (laboratory test based on EN 717-2 – gas analysis) and, under reasonably foreseeable circumstances, it is unlikely that the presence of traces of formaldheyde in the product and the small amounts of formaldheyde that may be released from it pose a health risk.

Handling panel edges and surfaces may cause splinters.

For further information concerning toxic and hazardous aspects consult the original MSDSs for wood dust and formaldheyde.

**Section 4. First aid measures**

In case of inhalation, remove from wood dust exposure. If breathing has stopped administer artificial respiration. Seek medical aid if symptoms persist.

If eye contact occurs, gently flush any particles from the eye with large amounts of water for at least 15 minutes. Do not rub the eyes. Seek medical aid if irritation persist.

In case of skin contact, rinse wood of with water. Do not rub. Once the skin is free of the wood dust, wash thoroughly with soap an water. Seek medical aid if severe irritation develops.

Ingestion is not anticipated to occur. In case, rinse the victim’s mouth out with water. Do not induce vomiting. If symptoms develop, call a physician or poison center.

**Section 5. Fire fighting measures**

Burning of wood products produces irritating and toxic emissions, including carbon dioxide, aldehydes and organic acids.

Use water spray or carbon dioxide when fighting fires involving this product. Use dry sand or earth to smother fire.

In case, wear complete fire service protective equipment, including full-face approved self-containing breathing apparatus.

Wood dust from sawing, sanding, or machining can be explosive in the presence of an ignition source depending on particle size and moisture content. Airborne concentrations of 40 grams per cubic meter is often used as the lower explosive limit
(LEL) for wood dusts. OSHA interprets the explosive level as having no visibility within five feet or less

Section 6. Accidental release measures

Spill or leak procedures are not applicable.

Wet down wood dust accumulated or generated by sawing, sanding or machining to reduce the likelihood of ignition or dispersion of dust into the air.

Wood dust generated from sawing, sanding or machining may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA - approved respiratory protection and goggles where exposure limits may be exceeded.

Section 7. Handling and storage

Protect from physical damage and maintain good housekeeping avoiding exposure to water, high humidity or temperature (and their variations) that can induce delamination and shape deformations to the product.

Wash hands thoroughly before eating, drinking, smoking and using restrooms.

Provide adequate ventilation to reduce the possible buildup of formaldehyde vapors.

Section 8. Exposure controls / Personal protection

Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sawing, sanding or machining of the product to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended. Respiratory protection: none normally required for products in purchased form. When sawing or cutting the product wear a NIOSH/MSHA approved respiratory protection for dust/formaldehyde when the allowable exposure limits may be exceeded.

Eye protection: wear safety glasses with side shields or safety goggles when cutting, sawing or sanding the product.

Skin/foot protection: leather or comparable gloves to prevent splinters. Long sleeve shirt, pants and steel toed shoes when handling the product.

Ventilation: whenever possible, sawing or machining the product should be performed outdoors or in well ventilated areas to avoid accumulations of airborne wood dust. Ventilation must be sufficient to maintain inhalation exposure below the limits for particulates.

Other protective equipments: wear ear plugs or muffs when using power tools.

Section 9. Physical and chemical properties

Appearance: natural

Odor: wood

Physical state: solid

Ph: Not Applicable

Density (water = 1) = 0.50-0.80, variable depends on wood species and moisture

Vapor Pressure: Not Applicable
Evaporation Rate: Not Applicable

Section 10. Stability and reactivity

If adequately stored (in a covered, cool, dry and well-ventilated areas) the product maintain its dimension and shape stability with time.

Incompatibilities: open flame

Hazardous reaction/decomposition/combustion products: combustion products may include smoke, toxic fumes or gases.

Section 11. Toxicological information

Data not available for product in purchased form.

Carcinogenic effects:
untreated hardwood and hardwood/softwood mix dust (IARC group 1A – carcinogenic to humans)
formaldehyde (IARC group 1A – carcinogenic to humans).

Nasal carcinoma has been reported in furniture industries and an increase of Hodgkin’s disease has been reported in other woodworking industries, especially in sawmills.

The wood dust classification is based primarily on IARC’s evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with long period occupational exposures.

Section 12. Ecological information

Not available for product in purchased form.

Section 13. Disposal considerations

The product is normally not considered an hazardous waste. However it must be disposed in accordance with state and local environmental control regulations.

Section 14. Transport information

Special provisions: none

The product is not regulated as an hazardous material for transport regulations.

Section 15. Regulatory information

It is user's responsibility to determine what regulatory information is relevant dependant upon the usage of this product.

Section 16. Other information

HMIS Hazard Rating (0-Insignificant, 1-Slight, 2-Moderate, 3-Hight, 4-Extreme)

Health-1* (potential chronic health effects from overexposures)

Flammability – 0

Reactivity – 0
Personal Protective Equipment – Depends on use conditions see section 8

Validated by Compensati TORO on 30/05/2012

Notice to reader:

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